Monitoring Data Record

Project Title: R-2417BB (Site 6) COE Action ID: 200201326
Stream Name:DWQ Numbers: 3378
City, County and other Location Information: Lee County, Sanford Bypass (Sta. 540+20 to
555+00 –L- RT.)
Date Construction Completed: Water was turned into the stream in Oct. 2006. Streambank
reforestation was completed in Jan. 2007.
Monitoring Quarter: (4) of 8
Ecoregion: 8 digit HUC unit: <u>03030004</u>
USGS Quad Name and Coordinates:
Rosgen Classification:
Length of Project: 1,734' Urban or Rural: Rural Watershed Size:
Monitoring DATA collected by: M. Green and J.Young Date: 2/1/08
Applicant Information:
Name: NCDOT Roadside Environmental Unit
Address: 1425 Rock Quarry Rd. Raleigh, NC 27610
Telephone Number: (919) 861-3772 Email address: mlgreen@dot.state.nc.us
Consultant Information:
Name:
Address:
Telephone Number: Email address:
Project Status: Complete
Monitoring Level required by COE and DWQ (404 permit/ 401 Cert.): <u>Level</u> 2 3
Monitoring Level 1 requires completion of Section 1, Section 2 and Section 3
Permit States: The permittee will visually monitor the vegetative plantings on all mitigation
streambanks to access and insure complete stabilization of the mitigation stream segments. This
monitoring will include adequate visual monitoring of planted vegetation quarterly for a
minimum of two years after final planting, and appropriate remedial actions (e.g., replanting,
streambank grading, ect.). If within any monitoring year, bank stabilization is not acceptable as
determined by the Corps of Engineers, and remedial action required by the Corps of Engineers is
performed, the two year monitoring of the affected portions of the stream will begin again.
Section 1. PHOTO REFERENCE SITES
SOURCE I. INDICATE REPERCENCE OFFEE
Total number of reference photo locations at this site: 9 photo point locations – 2 photos
taken from each location
Dates reference photos have been taken at this site: <u>5/21/07, 8/7/07, 11/2/07, 2/1/08</u>
Individual from whom additional photos can be obtained (name, address, phone):
Other Information relative to site photo reference:
If required to complete Level 3 monitoring only stop here: otherwise

If required to complete Level 3 monitoring <u>only</u> stop here; otherwise,

Identify specific problem areas (missing, stressed, damaged or dead plantings): The buffer area (Type II plants) along stream are lacking planted vegetation. Estimated causes, and proposed/required remedial action: The buffer area will be supplementally planted by March 2008. ADDITIONAL COMMENTS: Vegetation is dormant at this time. Planted live stakes and bareroot seedlings noted on the streambank and in the floodplain consisted of black willow, silky dogwood, river birch, black cherry, water oak, and willow oak. Other herbaceous and woody species noted were Juncus sp., sedge, woolgrass, fennel, goldenrod, pine, pokeweed, Scirpus sp., clover, ragweed, alder, sweetgum, tulip poplar, sycamore, red maple, and cattail.

Section 2. PLANT SURVIVAL

Attach plan sheet indicating reference photos.

If required to complete Level 1 and Level 2 monitoring <u>only</u> stop here; otherwise, complete section 3.

Section 3. CHANNEL STABILITY

Visual Inspection: The entire stream project as well as each in-stream structure and bank stabilization/revetment structure must be evaluated and problems addressed.

Report on the visual inspection of channel stability. <u>Physical measurements of channel stability/morphology will not be required.</u> Include a discussion of any deviations from as-built and an evaluation of the significance of these deviations and whether they are indicative of a stabilizing or destabilizing situation.

This is the 4th quarterly monitoring evaluation for this stream relocation. The crossvane @ Sta. 546+75 (PP#6 Upstream) that was noted previously as having water piping under the crossvane, a slight headcut, and the left arm of the crossvane had dropped into the channel has been repaired and is functioning properly at this time. The stream relocation is stable at this time. NCDOT will continue to monitor this stream relocation.

Date	Station	Station	Station	Station	Station
	Number	Number	Number	Number	Number
Structure					
Type					
Is water					
piping					
through or					
around					
structure?					
Head cut or					
down cut					
present?					
Bank or scour					
erosion					
present?					
Other					
problems					
noted?					

Site 6



Photo Point #1 (Upstream)



Photo Point #1 (Downstream)



Photo Point #2 (Upstream)



Photo Point #2 (Downstream)



Photo Point #3 (Upstream)



Photo Point #3 (Downstream)

4th Quarter – February 2008

Site 6



Photo Point #4 (Upstream)



Photo Point #4 (Downstream)



Photo Point #5 (Upstream)



Photo Point #5 (Downstream)



Photo Point #6 (Upstream)



Photo Point #6 (Downstream)

4th Quarter – February 2008

Site 6



Photo Point #7 (Upstream)



Photo Point #7 (Downstream)



Photo Point #8 (Upstream)



Photo Point #8 (Downstream)



Photo Point #9 (Upstream)



Photo Point #9 (Downstream)

4th Quarter – February 2008